

# AWWA 2017 Water Audit Level 1 Validation – Review Document

#### Audit Information:

**Utility: Crestline Village Water District** PWS ID: 3610015

System Type: Potable **Audit Period: Calendar Year 2017** 

Utility Representation: Larrie Davis, Karl Drew, Steve Wood, Alan Clanin, Jeanine (Customer Service)

Call Time: 8:30am

Sufficient Supporting Documents Provided: Yes

## Validation Findings & Confirmation Statement:

Validation Date: 9/20/2018

#### **Key Audit Metrics:**

Data Validity Score: 58 Data Validity Band (Level): Band III (51-70)

Real Loss: 2.59 (gal/conn/day)

Apparent Loss: 2.97 (gal/conn/day)

Non-revenue water as percent of cost of operating system: 2.3%

conclusions can be made regarding the system's loss performance. At least one of the following scenarios may contribute to this result: While this system may experience low levels of loss, the audit metrics after level 1 validation indicates that advanced validation is warranted before

- Water Supplied (both Own Source and Imported Water) may be understated. This can occur if supply meters are under-registering more uncorrected inaccuracies in the data archives due to data gaps or SCADA formula errors. significantly than is currently reflected in the Master Meter Error & Supply Adjustment (MMSEA). This can also occur if the supply volumes include
- Authorized consumption may be overstated. This can occur if the BMAC input includes any non-potable volumes, duplication of potable volumes, or inclusion of potable volumes that are not part of the water balance. Level 2 validation on the billing database is recommended Certification Statement by Validator:

7 and the California Water Code Section 10608.34. This water loss audit report has been Level 1 validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter

All recommendations on volume derivation and Data Validity Grades were incorporated into the water audit. oximes

#### Validator Information:

Water Audit Validator: Drew Blackwell Validator Qualifications: Contractor for California Water Loss TAP

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	Water System Name:	Water System ID Number:	Water Audit Period:
Crestline Village Water District 3610015 2017	<b>Crestline Village Water District</b>	3610015	2017

Water Audit & Water Loss Improvement Steps:

Increased quantity of random accuracy testing of customer meters. Repairs and upgrades to AMI meter reading infrastructure

Steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed by the annual validated water audit:

### **Certification Statement by Utility Executive:**

in their manual, Water Audits and Loss Control Programs, Manual M36, Fourth Edition and in the Free Water Audit Software version 5. Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained This water loss audit report meets the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water

**Executive Name (Print)** Alan E. Clanin **Executive Position** General Manager Signature